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Your assignment has been received by the USPTO.
The coversheet of the assignment is displayed below:

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT										
NATURE OF CONVEYANCE:	Corrective Assignment to correct the Error in spelling of assignor's name, previously recorded on Reel 028798 Frame 0468. Assignor(s) hereby confirms the sale, assignment, transference and conveyance unto said Assignee of the entire right, title and interest.										
CONVEYING PARTY DATA											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>John Cronan Eble</td><td>08/20/2010</td></tr></tbody></table>	Name	Execution Date	John Cronan Eble	08/20/2010							
Name	Execution Date										
John Cronan Eble	08/20/2010										
RECEIVING PARTY DATA											
<table border="1"><tr><td>Name:</td><td>Rambus Inc.</td></tr><tr><td>Street Address:</td><td>1050 Enterprise Way, Suite 700</td></tr><tr><td>City:</td><td>Sunnyvale</td></tr><tr><td>State/Country:</td><td>CALIFORNIA</td></tr><tr><td>Postal Code:</td><td>94089</td></tr></table>	Name:	Rambus Inc.	Street Address:	1050 Enterprise Way, Suite 700	City:	Sunnyvale	State/Country:	CALIFORNIA	Postal Code:	94089	
Name:	Rambus Inc.										
Street Address:	1050 Enterprise Way, Suite 700										
City:	Sunnyvale										
State/Country:	CALIFORNIA										
Postal Code:	94089										
PROPERTY NUMBERS Total: 1											
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>12809000</td></tr></tbody></table>	Property Type	Number	Application Number:	12809000							
Property Type	Number										
Application Number:	12809000										

PATENT

USPTO, EPAS, Receipt

Page 2 of 2

CORRESPONDENCE DATA	
Fax Number:	4088773828
Phone:	4086556375
Email:	marc@schuylerlawgroup.com
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>	
Correspondent Name:	Marc Schuyler
Address Line 1:	PO Box 2535
Address Line 4:	Saratoga, CALIFORNIA 95070
ATTORNEY DOCKET NUMBER:	2012055 / RA584PCTUS
NAME OF SUBMITTER:	Marc P. Schuyler, Reg. No. 35675
Signature:	/Marc P. Schuyler/
Date:	08/20/2012
Total Attachments: 2 source=receipt-AssignRecord2-RA584PCTUS#page1.tif source=receipt-AssignRecord2-RA584PCTUS#page2.tif	
RECEIPT INFORMATION	
EPAS ID:	PAT2068524
Receipt Date:	08/20/2012
Fee Amount:	\$40

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Attorney Docket No. R-RA0584.PCT1.US

State of)
)
 County of)

 WooPoung Kim

 Date

On _____, before me, _____,
 personally appeared WooPoung Kim,
 who proved to me on the basis of satisfactory evidence to be the
 person(s) whose name(s) is/are subscribed to the within instrument
 and acknowledged to me that he/she/they executed the same in
 his/her/their authorized capacity(ies), and that by his/her/their
 signature(s) on the instrument the person(s), or the entity upon
 behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the
 State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

 (Signature of Notary Public)

State of)
)
 County of)

 Jade M. Kizer

 Date

On _____, before me, _____,
 personally appeared Jade M. Kizer,
 who proved to me on the basis of satisfactory evidence to be the
 person(s) whose name(s) is/are subscribed to the within instrument
 and acknowledged to me that he/she/they executed the same in
 his/her/their authorized capacity(ies), and that by his/her/their
 signature(s) on the instrument the person(s), or the entity upon
 behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the
 State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

 (Signature of Notary Public)

Attorney Docket No. R-RA0584.PCT1.US

State of _____)
)
 County of _____)

 Brian S. Leibowitz

 Date

On _____, before me, _____,
 personally appeared Brian S. Leibowitz,
 who proved to me on the basis of satisfactory evidence to be the
 person(s) whose name(s) is/are subscribed to the within instrument
 and acknowledged to me that he/she/they executed the same in
 his/her/their authorized capacity(ies), and that by his/her/their
 signature(s) on the instrument the person(s), or the entity upon
 behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the
 State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

 (Signature of Notary Public)

State of _____)
)
 County of _____)

 Lei Luo

 Date

On _____, before me, _____,
 personally appeared Lei Luo,
 who proved to me on the basis of satisfactory evidence to be the
 person(s) whose name(s) is/are subscribed to the within instrument
 and acknowledged to me that he/she/they executed the same in
 his/her/their authorized capacity(ies), and that by his/her/their
 signature(s) on the instrument the person(s), or the entity upon
 behalf of which the person(s) acted, executed the instrument.

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 State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

 (Signature of Notary Public)

Attorney Docket No. R-RA0584.PCT1.US

State of)
)
County of)

John Cronan Eble

Date

On _____, before me, _____,
personally appeared John Cronan Eble,
who proved to me on the basis of satisfactory evidence to be the
person(s) whose name(s) is/are subscribed to the within instrument
and acknowledged to me that he/she/they executed the same in
his/her/their authorized capacity(ies), and that by his/her/their
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behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the
State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(Signature of Notary Public)

Attorney Docket No. R-RA0584.PCT1.US

CORPORATE ASSIGNMENT

WHEREAS, the undersigned,

Kyung Suk Oh	10219 Palo Vista Road, Cupertino, CA 95014
John Wilson	7620 Elliott Drive, Raleigh, NC 27613
Frederick A. Ware	13961 Fremont Pines Lane, Los Altos Hills, CA 94022
WooPoung Kim	2325 Eldger Drive, Plano, TX 75025
Jade M. Kizer	8491 Sand Dollar Drive, Windsor, CO 80528
Brian S. Leibowitz	425 14 th Street #4, San Francisco, CA 94013
Lei Luo	1048 Bellenden Drive, Durham, NC 27713
John Cronan Eble	205 Wild Turkey Trail, Chapel Hill, NC 27516

hereinafter termed "Inventor(s)", have invented certain new and useful improvements in

ASYMMETRIC COMMUNICATION ON SHARED LINKS

and have executed a declaration or oath for an application for a United States patent disclosing and identifying the invention:

___ On the ___ day of _____, 20___;

Or

X Said application having Application Number 12/809,000 and filed on 17 June 2010; and

WHEREAS, RAMBUS INC., a corporation of the State of Delaware, having a place of business at 4440 El Camino Real, Los Altos, CA 94022, (hereinafter termed "Assignee"), is desirous of acquiring the entire right, title and interest in and to said application and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered jointly or severally by said Inventor(s) (all collectively hereinafter termed "said invention"), and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter termed "patents") thereon granted in the United States and foreign countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventor(s) to have been received in full from said Assignee:

1. Said Inventor(s) do hereby sell, assign, transfer and convey unto said Assignee the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply for foreign patents on said invention pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all applications filed and any and all patents granted on said invention in the United States or any foreign country, including each and every application filed and each and every patent granted on any application which is a divisional, substitution, continuation, or continuation-in-part of any of said applications; and (d) in and to each and every reissue or extensions of any of said patents.

2. Said Inventor(s) hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States and foreign countries. Such cooperation by said Inventor(s) shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed;

Attorney Docket No. R-RA0584.PCT1.US

(b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention; (d) for filing and prosecuting applications for reissuance of any said patents; (e) for interference or other priority proceedings involving said invention; and (f) for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation reissues and reexaminations, opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventor(s) in providing such cooperation shall be paid for by said Assignee.

3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventor(s), their respective heirs, legal representatives and assigns.

4. Said Inventor(s) hereby warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, said Inventor(s) have executed and delivered this instrument to said Assignee as of the dates written below.

State of)
County of)

Kyung Suk Oh

On _____, before me, _____,
personally appeared Kyung Suk Oh,
who proved to me on the basis of satisfactory evidence to be the
person(s) whose name(s) is/are subscribed to the within instrument
and acknowledged to me that he/she/they executed the same in
his/her/their authorized capacity(ies), and that by his/her/their
signature(s) on the instrument the person(s), or the entity upon
behalf of which the person(s) acted, executed the instrument.

Date

I certify under PENALTY OF PERJURY under the laws of the
State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(Signature of Notary Public)

Attorney Docket No. R-RA0584.PCT1.US

State of _____)
 County of _____)

 John Wilson

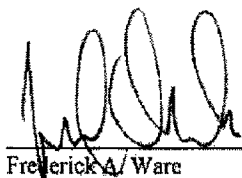
 Date

On _____, before me, _____,
 personally appeared John Wilson,
 who proved to me on the basis of satisfactory evidence to be the
 person(s) whose name(s) is/are subscribed to the within instrument
 and acknowledged to me that he/she/they executed the same in
 his/her/their authorized capacity(ies), and that by his/her/their
 signature(s) on the instrument the person(s), or the entity upon
 behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the
 State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

 (Signature of Notary Public)


 Frederick A. Ware

 Date

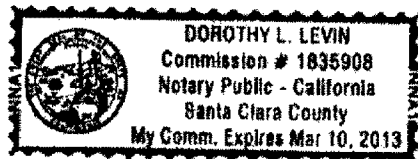
7/2/10

State of California)
 County of Santa Clara)

On 7-2-2010 before me, Dorothy L. Levin, Notary Public,
 personally appeared Frederick A. Ware,
 who proved to me on the basis of satisfactory evidence to be the
 person(s) whose name(s) is/are subscribed to the within instrument
 and acknowledged to me that he/she/they executed the same in
 his/her/their authorized capacity(ies), and that by his/her/their
 signature(s) on the instrument the person(s), or the entity upon
 behalf of which the person(s) acted, executed the instrument.

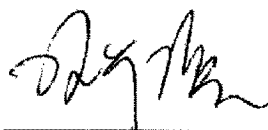
I certify under PENALTY OF PERJURY under the laws of the
 State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.




 (Signature of Notary Public)

Attorney Docket No. R-RA0584.PCT1.US



WooPoung Kim

07/19/2010

Date



State of

TX

County of

Dallas

On July 19, 2010, before me,

Ahple Tardy

personally appeared WooPoung Kim,

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.


 (Signature of Notary Public)

State of

County of

Jade M. Kizer

On _____, before me,

personally appeared Jade M. Kizer,

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

Date

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

 (Signature of Notary Public)

Attorney Docket No. R-RA0584.PCT1.US

State of)
)
 County of)

 Brian S. Leibowitz

 Date

On _____, before me, _____,
 personally appeared Brian S. Leibowitz,
 who proved to me on the basis of satisfactory evidence to be the
 person(s) whose name(s) is/are subscribed to the within instrument
 and acknowledged to me that he/she/they executed the same in
 his/her/their authorized capacity(ies), and that by his/her/their
 signature(s) on the instrument the person(s), or the entity upon
 behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the
 State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

 (Signature of Notary Public)

State of)
)
 County of)

 Lei Luo

 Date

On _____, before me, _____,
 personally appeared Lei Luo,
 who proved to me on the basis of satisfactory evidence to be the
 person(s) whose name(s) is/are subscribed to the within instrument
 and acknowledged to me that he/she/they executed the same in
 his/her/their authorized capacity(ies), and that by his/her/their
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I certify under PENALTY OF PERJURY under the laws of the
 State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

 (Signature of Notary Public)

Attorney Docket No. R-RA0584.PCT1.US

State of)

County of)

John Cronan Eble

On _____, before me, _____,
personally appeared John Cronan Eble,
who proved to me on the basis of satisfactory evidence to be the
person(s) whose name(s) is/are subscribed to the within instrument
and acknowledged to me that he/she/they executed the same in
his/her/their authorized capacity(ies), and that by his/her/their
signature(s) on the instrument the person(s), or the entity upon
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Date

I certify under PENALTY OF PERJURY under the laws of the
State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(Signature of Notary Public)

Attorney Docket No. R-RA0584.PCT1.US

CORPORATE ASSIGNMENT

WHEREAS, the undersigned,

Kyung Suk Oh	10219 Palo Vista Road, Cupertino, CA 95014
John Wilson	7620 Elliott Drive, Raleigh, NC 27613
Frederick A. Ware	13961 Fremont Pines Lane, Los Altos Hills, CA 94022
WooPoung Kim	2325 Eldger Drive, Plano, TX 75025
Jade M. Kizer	8491 Sand Dollar Drive, Windsor, CO 80528
Brian S. Leibowitz	425 14 th Street #4, San Francisco, CA 94013
Lei Luo	1048 Bellenden Drive, Durham, NC 27713
John Cronan Eble	205 Wild Turkey Trail, Chapel Hill, NC 27516

hereinafter termed "Inventor(s)", have invented certain new and useful improvements in

ASYMMETRIC COMMUNICATION ON SHARED LINKS

and have executed a declaration or oath for an application for a United States patent disclosing and identifying the invention:

___ On the ___ day of ___, 20___;

Or

X Said application having Application Number 12/809,000 and filed on 17 June 2010; and

WHEREAS, RAMBUS INC., a corporation of the State of Delaware, having a place of business at 4440 El Camino Real, Los Altos, CA 94022, (hereinafter termed "Assignee"), is desirous of acquiring the entire right, title and interest in and to said application and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered jointly or severally by said Inventor(s) (all collectively hereinafter termed "said invention"), and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter termed "patents") thereon granted in the United States and foreign countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventor(s) to have been received in full from said Assignee:

1. Said Inventor(s) do hereby sell, assign, transfer and convey unto said Assignee the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply for foreign patents on said invention pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all applications filed and any and all patents granted on said invention in the United States or any foreign country, including each and every application filed and each and every patent granted on any application which is a divisional, substitution, continuation, or continuation-in-part of any of said applications; and (d) in and to each and every reissue or extensions of any of said patents.

2. Said Inventor(s) hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States and foreign countries. Such cooperation by said Inventor(s) shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed;

Attorney Docket No. R-RA0584.PCT1.US

(b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention; (d) for filing and prosecuting applications for reissuance of any said patents; (e) for interference or other priority proceedings involving said invention; and (f) for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation reissues and reexaminations, opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventor(s) in providing such cooperation shall be paid for by said Assignee.

3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventor(s), their respective heirs, legal representatives and assigns.

4. Said Inventor(s) hereby warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, said Inventor(s) have executed and delivered this instrument to said Assignee as of the dates written below.

State of)
County of)

Kyung Suk Oh

Date

On _____, before me, _____,
personally appeared Kyung Suk Oh,
who proved to me on the basis of satisfactory evidence to be the
person(s) whose name(s) is/are subscribed to the within instrument
and acknowledged to me that he/she/they executed the same in
his/her/their authorized capacity(ies), and that by his/her/their
signature(s) on the instrument the person(s), or the entity upon
behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the
State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(Signature of Notary Public)

Attorney Docket No. R-RA0584.PCT1.US

State of)
)
 County of)

 John Wilson

On _____, before me, _____,
 personally appeared John Wilson,
 who proved to me on the basis of satisfactory evidence to be the
 person(s) whose name(s) is/are subscribed to the within instrument
 and acknowledged to me that he/she/they executed the same in
 his/her/their authorized capacity(ies), and that by his/her/their
 signature(s) on the instrument the person(s), or the entity upon
 behalf of which the person(s) acted, executed the instrument.

 Date

I certify under PENALTY OF PERJURY under the laws of the
 State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

 (Signature of Notary Public)

State of)
)
 County of)

 Frederick A. Ware

On _____, before me, _____,
 personally appeared Frederick A. Ware,
 who proved to me on the basis of satisfactory evidence to be the
 person(s) whose name(s) is/are subscribed to the within instrument
 and acknowledged to me that he/she/they executed the same in
 his/her/their authorized capacity(ies), and that by his/her/their
 signature(s) on the instrument the person(s), or the entity upon
 behalf of which the person(s) acted, executed the instrument.

 Date

I certify under PENALTY OF PERJURY under the laws of the
 State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

 (Signature of Notary Public)

Attorney Docket No. R-RA0584.PCT1.US

State of _____)
 _____)
 County of _____)

 WooPoung Kim

 Date

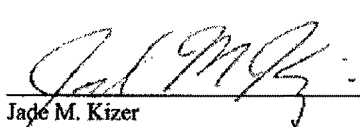
On _____, before me, _____,
 personally appeared WooPoung Kim,
 who proved to me on the basis of satisfactory evidence to be the
 person(s) whose name(s) is/are subscribed to the within instrument
 and acknowledged to me that he/she/they executed the same in
 his/her/their authorized capacity(ies), and that by his/her/their
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 behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the
 State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

 (Signature of Notary Public)

State of _____)
 _____)
 County of _____)


 Jade M. Kizer

July 22, 2010
 Date

On _____, before me, _____,
 personally appeared Jade M. Kizer,
 who proved to me on the basis of satisfactory evidence to be the
 person(s) whose name(s) is/are subscribed to the within instrument
 and acknowledged to me that he/she/they executed the same in
 his/her/their authorized capacity(ies), and that by his/her/their
 signature(s) on the instrument the person(s), or the entity upon
 behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the
 State of California that the foregoing paragraph is true and correct.

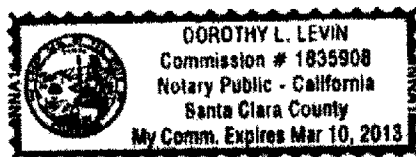
WITNESS my hand and official seal.

 (Signature of Notary Public)

Attorney Docket No. R-RA0584.PCT1.US

Brian S. Leibowitz

Date _____



State of CALIFORNIA
County of SANTA CLARA

On 7-9-2010, before me, Doreen L. Lewis, Notary Public
personally appeared Brian S. Leibowitz,
who proved to me on the basis of satisfactory evidence to be the
person(s) whose name(s) is/~~are~~ subscribed to the within instrument
and acknowledged to me that he/~~she~~/~~they~~ executed the same in
his/~~her~~/~~their~~ authorized capacity(ies), and that by his/~~her~~/~~their~~
signature(s) on the instrument the person(s), or the entity upon
behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(Signature of Notary Public)

State of _____)
County of _____)

Lei Luo

Date _____

On _____, before me, _____,
personally appeared Lei Luo,
who proved to me on the basis of satisfactory evidence to be the
person(s) whose name(s) is/are subscribed to the within instrument
and acknowledged to me that he/she/they executed the same in
his/her/their authorized capacity(ies), and that by his/her/their
signature(s) on the instrument the person(s), or the entity upon
behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(Signature of Notary Public)

Attorney Docket No. R-RA0584.PCT1.US

State of)
)
County of)

John Cronan Eble

Date

On _____, before me, _____,
personally appeared John Cronan Eble,
who proved to me on the basis of satisfactory evidence to be the
person(s) whose name(s) is/are subscribed to the within instrument
and acknowledged to me that he/she/they executed the same in
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WITNESS my hand and official seal.

(Signature of Notary Public)

Attorney Docket No. R-RA0584.PCT1.US

CORPORATE ASSIGNMENT

WHEREAS, the undersigned,

Kyung Suk Oh	10219 Palo Vista Road, Cupertino, CA 95014
John Wilson	7620 Elliott Drive, Raleigh, NC 27613
Frederick A. Ware	13961 Fremont Pines Lane, Los Altos Hills, CA 94022
WooPoung Kim	2325 Eldger Drive, Plano, TX 75025
Jade M. Kizer	8491 Sand Dollar Drive, Windsor, CO 80528
Brian S. Leibowitz	425 14 th Street #4, San Francisco, CA 94013
Lei Luo	1048 Bellenden Drive, Durham, NC 27713
John Cronan Eble	205 Wild Turkey Trail, Chapel Hill, NC 27516

hereinafter termed "Inventor(s)", have invented certain new and useful improvements in

ASYMMETRIC COMMUNICATION ON SHARED LINKS

and have executed a declaration or oath for an application for a United States patent disclosing and identifying the invention:

On the _____ day of _____, 20____;

Or

X Said application having Application Number 12/809,000 and filed on 17 June 2010; and

WHEREAS, RAMBUS INC., a corporation of the State of Delaware, having a place of business at 4440 El Camino Real, Los Altos, CA 94022, (hereinafter termed "Assignee"), is desirous of acquiring the entire right, title and interest in and to said application and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered jointly or severally by said Inventor(s) (all collectively hereinafter termed "said invention"), and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter termed "patents") thereon granted in the United States and foreign countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventor(s) to have been received in full from said Assignee:

1. Said Inventor(s) do hereby sell, assign, transfer and convey unto said Assignee the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply for foreign patents on said invention pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all applications filed and any and all patents granted on said invention in the United States or any foreign country, including each and every application filed and each and every patent granted on any application which is a divisional, substitution, continuation, or continuation-in-part of any of said applications; and (d) in and to each and every reissue or extensions of any of said patents.

2. Said Inventor(s) hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States and foreign countries. Such cooperation by said Inventor(s) shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed;

Attorney Docket No. R-RA0584.PCT1.US

(b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention; (d) for filing and prosecuting applications for reissuance of any said patents; (e) for interference or other priority proceedings involving said invention; and (f) for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation reissues and reexaminations, opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventor(s) in providing such cooperation shall be paid for by said Assignee.

3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventor(s), their respective heirs, legal representatives and assigns.

4. Said Inventor(s) hereby warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, said Inventor(s) have executed and delivered this instrument to said Assignee as of the dates written below.

State of)
)
County of)

Kyung Suk Oh

On _____, before me, _____,
personally appeared Kyung Suk Oh,
who proved to me on the basis of satisfactory evidence to be the
person(s) whose name(s) is/are subscribed to the within instrument
and acknowledged to me that he/she/they executed the same in
his/her/their authorized capacity(ies), and that by his/her/their
signature(s) on the instrument the person(s), or the entity upon
behalf of which the person(s) acted, executed the instrument.

Date

I certify under PENALTY OF PERJURY under the laws of the
State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(Signature of Notary Public)

Attorney Docket No. R-RA0584.PCT1.US

State of _____)
)
 County of _____)

 John Wilson

On _____, before me, _____,
 personally appeared John Wilson,
 who proved to me on the basis of satisfactory evidence to be the
 person(s) whose name(s) is/are subscribed to the within instrument
 and acknowledged to me that he/she/they executed the same in
 his/her/their authorized capacity(ies), and that by his/her/their
 signature(s) on the instrument the person(s), or the entity upon
 behalf of which the person(s) acted, executed the instrument.

 Date

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 State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

 (Signature of Notary Public)

State of _____)
)
 County of _____)

 Frederick A. Ware

On _____, before me, _____,
 personally appeared Frederick A. Ware,
 who proved to me on the basis of satisfactory evidence to be the
 person(s) whose name(s) is/are subscribed to the within instrument
 and acknowledged to me that he/she/they executed the same in
 his/her/their authorized capacity(ies), and that by his/her/their
 signature(s) on the instrument the person(s), or the entity upon
 behalf of which the person(s) acted, executed the instrument.

 Date

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 State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

 (Signature of Notary Public)

Attorney Docket No. R-RA0584.PCT1.US

State of)
)
 County of)

 WooPoung Kim

 Date

On _____, before me, _____,
 personally appeared WooPoung Kim,
 who proved to me on the basis of satisfactory evidence to be the
 person(s) whose name(s) is/are subscribed to the within instrument
 and acknowledged to me that he/she/they executed the same in
 his/her/their authorized capacity(ies), and that by his/her/their
 signature(s) on the instrument the person(s), or the entity upon
 behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the
 State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

 (Signature of Notary Public)

State of)
)
 County of)

 Jade M. Kizer

 Date

On _____, before me, _____,
 personally appeared Jade M. Kizer,
 who proved to me on the basis of satisfactory evidence to be the
 person(s) whose name(s) is/are subscribed to the within instrument
 and acknowledged to me that he/she/they executed the same in
 his/her/their authorized capacity(ies), and that by his/her/their
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 behalf of which the person(s) acted, executed the instrument.

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 State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

 (Signature of Notary Public)

Attorney Docket No. R-RA0584.PCT1.US

 Brian S. Leibowitz

 Date

State of _____)
)
 County of _____)

On _____, before me, _____,
 personally appeared Brian S. Leibowitz,
 who proved to me on the basis of satisfactory evidence to be the
 person(s) whose name(s) is/are subscribed to the within instrument
 and acknowledged to me that he/she/they executed the same in
 his/her/their authorized capacity(ies), and that by his/her/their
 signature(s) on the instrument the person(s), or the entity upon
 behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the
 State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

 (Signature of Notary Public)

 Lei Luo

 Date

State of _____)
)
 County of _____)

On _____, before me, _____,
 personally appeared Lei Luo,
 who proved to me on the basis of satisfactory evidence to be the
 person(s) whose name(s) is/are subscribed to the within instrument
 and acknowledged to me that he/she/they executed the same in
 his/her/their authorized capacity(ies), and that by his/her/their
 signature(s) on the instrument the person(s), or the entity upon
 behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the
 State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

 (Signature of Notary Public)

Attorney Docket No. R-RA0584.PCT1.US

John Cronan Eble
John Cronan Eble

8/20/10
Date

State of North Carolina
County of Orange

CHERYL D GALLAND
NOTARY PUBLIC
ORANGE COUNTY, NC
My Commission Expires 6-20-2015

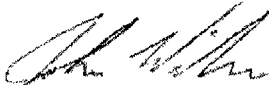
On 8/20/10, before me, Cheryl D Galland,
personally appeared John Cronan Eble,
who proved to me on the basis of satisfactory evidence to be the
person(s) whose name(s) is/are subscribed to the within instrument
and acknowledged to me that he/she/they executed the same in
his/her/their authorized capacity(ies), and that by his/her/their
signature(s) on the instrument the person(s), or the entity upon
behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the
State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Cheryl D Galland
(Signature of Notary Public)

Attorney Docket No. R-RA0584.PCT1.US



 John Wilson

July 19, 2010

 Date

State of _____)
 _____)
 County of _____)

On _____, before me, _____,
 personally appeared John Wilson,
 who proved to me on the basis of satisfactory evidence to be the
 person(s) whose name(s) is/are subscribed to the within instrument
 and acknowledged to me that he/she/they executed the same in
 his/her/their authorized capacity(ies), and that by his/her/their
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 behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the
 State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

 (Signature of Notary Public)

State of _____)
 _____)
 County of _____)

 Frederick A. Ware

 Date

On _____, before me, _____,
 personally appeared Frederick A. Ware,
 who proved to me on the basis of satisfactory evidence to be the
 person(s) whose name(s) is/are subscribed to the within instrument
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 State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

 (Signature of Notary Public)

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Page 2 of 2

Phone:	4086556375
Email:	marc@schuylerlawgroup.com
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>	
Correspondent Name:	Marc Schuyler
Address Line 1:	PO Box 2535
Address Line 4:	Saratoga, CALIFORNIA 95070

ATTORNEY DOCKET NUMBER:	2012033 / RA584PCTUS
NAME OF SUBMITTER:	Marc Schuyler, Reg. No. 35675
Signature:	/Marc Schuyler/
Date:	08/16/2012

Total Attachments: 24

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Name	Execution Date										
John Cronan Elbe	08/20/2010										
RECEIVING PARTY DATA											
<table border="1"><tr><td>Name:</td><td>Rambus Inc.</td></tr><tr><td>Street Address:</td><td>1050 Enterprise Way, Suite 700</td></tr><tr><td>City:</td><td>Sunnyvale</td></tr><tr><td>State/Country:</td><td>CALIFORNIA</td></tr><tr><td>Postal Code:</td><td>94089</td></tr></table>	Name:	Rambus Inc.	Street Address:	1050 Enterprise Way, Suite 700	City:	Sunnyvale	State/Country:	CALIFORNIA	Postal Code:	94089	
Name:	Rambus Inc.										
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City:	Sunnyvale										
State/Country:	CALIFORNIA										
Postal Code:	94089										
PROPERTY NUMBERS Total: 1											
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Property Type	Number										
Application Number:	12809000										
CORRESPONDENCE DATA											
Fax Number:	4088773828										

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